

PE NUMBER: 0102419A				UNCLASSIFIED					
PE TITLE: Aerostat Joint Program									
RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									
								PROJECT	
								DE55	
COST (In Thousands)									
	FY 1997 Actual	FY 1998 Estimate	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	Cost to Complete	Total Cost
DE55 JLENS	25680	33011	103937	129095	123044	0	0	85100	499867
<p>A. Mission Description and Budget Item Justification: The Under Secretary of Defense (Acquisition and Technology) and the Army Acquisition Executive (AAE) directed the establishment of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) Project Office (PO), formerly Aerostat, for Land Attack Cruise Missile Defense (LACMD) and directed the funding for FY 96-01. This is a multiservice effort with the Army as the lead service. The JLENS PO is assigned to the AAE with operational control assigned to the U. S. Army Space and Missile Defense Command. The program mission is to maximize the battle space of land, sea and air based missile systems by providing Over-the-Horizon (OTH) surveillance and precision track for broad area defense against land attack cruise missiles. JLENS is a theater based system employing advanced technologies with specific focus on LACMD. JLENS sensors provide the OTH surveillance/precision tracking for the Air Directed Surface to Air Missile (ADSAM) concept. The role of the JLENS is to expand the battlefield Commander's surveillance and engagement capability against cruise missiles and other targets by extending the battle space for systems such as Patriot, Medium Extended Air Defense System(MEADS)/Corps SAM, Aegis and Advanced Medium Range Air-to-Air Missile (AMRAAM). This project supports upgrades to surveillance and tracking systems.</p> <p>Acquisition Strategy: The JLENS PO executed a successful Concept Studies Phase by soliciting Cruise Missile Defense (CMD) architecture concepts that employ elevated sensors. The JLENS PO through a formal selection process has selected Hughes & Raytheon (H&R), a joint venture of Hughes Aircraft Company and the Raytheon Company (now Raytheon Systems Co), as the prime contractor for the JLENS Demonstration Program. The contract structure requires the contractor to perform risk mitigation on state of the art hardware and conduct system design activities leading to a critical design review (CDR) during segment one of the contract. Upon a successful CDR, segment 2 (Option one) will provide for the development, test, and demonstration of an operational prototype sensor system . Technology developed by DARPA and Other Government Agencies (OGAs) is being leveraged to mitigate technical risk areas. Testbed and modeling/simulation activities support the risk mitigation effort. The operational prototype JLENS system will be fully demonstrated together with Patriot PAC-3 and Standard Missile 2 (SM 2) Cooperative Engagement Capability (CEC) in counter LACM ADSAM live fire engagements. The prototype system is intended to be provided to a Commander-in-Chief (CINC) for contingency missions beginning in FY02.</p> <p>FY 1997 Accomplishments:</p> <ul style="list-style-type: none"> • 8265 Completed Concept Definition; continued modeling and simulation analysis. • 1012 Conducted Tests and Evaluation (Testbed) • 3447 Joint Project Office. • 12956 Continued Risk reduction program, vulnerability, weatherability & survivability, simulation analysis & experiments. Issued prime RFP and conducted Source Selection Evaluation Board.. <p>Total 25680</p>									
Project DE55			Page 1 of 5 Pages				Exhibit R-2 (PE 0102419A)		
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PROJECT
DE55

FY 1998 Planned Program:

- 23003 Award Risk Mitigation & Design Contract and support contracts.
 - 3730 Maintain Test Bed Facility; Conduct Joint demonstrations and exercises using Cooperative Engagement Capability (CEC), Joint Tactical Information Distribution System (JTIDS), and continue vulnerability and survivability analysis/experiments.
 - 1900 CEC Development/Integration
 - 500 SM-2 Development/Integration
 - 3050 JLENS Project Office.
 - 828 Small Business Innovative Research/Small Business Technology Transfer Programs.
- Total 33011

FY 1999 Planned Program:

- 77773 Complete Risk Mitigation & Design contract phase; begin Development/Test/Demo Option; other support contracts.
 - 9730 Maintain Test Bed Facilities, Conduct Joint demonstrations and exercises using Cooperative Engagement Capability (CEC), Joint Tactical Information Distribution System (JTIDS), and continue vulnerability and survivability analysis/experiments.
 - 5690 Continue CEC Development/Integration.
 - 4044 Continue SM-2 Development/Integration.
 - 3600 Purchase Government Furnished Equipment (GFE)
 - 3100 JLENS Project Office.
- Total 103937

B. Project Change Summary

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
FY 1998/1999 President's Budget	26376	86193	134298
Appropriated Value	26940	35000	
Adjustments to Appropriated Value	-1260	-1989	
FY 1999 President's Budget	25680	33011	103937

Change Summary Explanation:

Funding: FY 97 - Reprogrammed to higher priority requirements (-1260)

Funding: FY 98- Undistributed Congressional reductions were (-1989).

FY 99 - Funds realigned (-30000) to higher priority requirements

C. Other Program Funding Summary: Not applicable

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

PROJECT DE55

D. Schedule Profile

	FY 1997					FY 1998				FY 1999		
	1	2	3	4	1	2	3	4	1	2	3	4
Concept Definition Phase	X	X	X	X*								
Risk Mitigation/Design **						X	X	X	X	X		
Preliminary Design Review (PDR)								X				
Critical Design Review (CDR)										X		
Development/Test/Demo **											X	X
Test Bed/Risk Mitigation **	X*	X*	X*	X*	X*	X	X	X	X	X	X	X

* Denotes completed milestone.

** Efforts are/will be on going. Will be denoted by an asterisk when completed.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

PROJECT
DE55

A. Project Cost Breakdown

	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>
Product Development & Risk Mitigation	21221	28961	96237
Government Test Facility	1012	1000	1000
Government Furnished Equipment (GFE)	0	0	3600
Program Management	3447	3050	3100
Total	25680	33011	103937

B. Budget Acquisition History and Planning Information

Performing Organizations

Contractor or Government Performing <u>Activity</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation Date	Performing Activity <u>EAC</u>	Project Office <u>EAC</u>	Total Prior to <u>FY 1997</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	Budget to Complete	Total Program
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Product Development Organizations

H&R	CPFF	30 SEP 96	2000	2007	1162	845				2007
Lockheed Martin	CPFF	30 SEP 96	2000	2000	667	1333				2000
Northrop	CPFF	30 SEP 96	2000	1981	667	1314				1981
Grumman										
OGAs	MIPR			13366	411	12955				13366
H&R	CR/CPIF/CP AF	30 JAN 98	TBD	336139	0	0	21141	74800	240198	336139
OGA	MIPR	various		86378	0	0	5958	18464	61956	86378

Support and Management

JLENS PO				20688	191	3447	3050	3100	10900	20688
Support Contracts	CPFF	Various		19346	902	4774	1862	2973	8835	19346

Test and Evaluation Organizations

Test Bed - TBD	MIPR			9612	0	1012	1000	1000	6600	9612
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

PROJECT
DE55

Government Furnished Property:

<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1997</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>Budget to Complete</u>	<u>Total Program</u>
Product Development Property									
CEC Identifier	TBD	TBD	TBD	0	0	0	3600	8750	12350
Friend or Foe, Enhanced Position Location Reporting System, AN/ARC-210 (airborne radio system), Mobile Subscriber Equip components, etc.									
Test and Evaluation Property: None									
Subtotal Product Development				4000	24668	32011	102937	330639	494255
Subtotal Support and Management									
Subtotal Test and Evaluation					1012	1000	1000	6600	9612
Total Project				4000	25680	33011	103937	337239	503867

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